



DAKSeco
BROADCASTS & CONFERENCES

MISSION CRITICAL COMMUNICATION

Organizations face an increasing challenge to quickly and reliably communicate with their employees, especially when a crisis erupts. And with workforces more mobile and dispersed, getting the right information to the right people effectively and efficiently is a tough mission. Now more than ever, organizations need solid and flexible telecommunications. DAKSeco is the cornerstone to cost effectively extend the use and value of your existing communications infrastructure to meet your mission critical communication requirements.

With DAKSeco, you have the flexibility to pick the hardware platform and features that fit your organization, business scenarios and budget. The DAKSeco software package includes a feature set that consists of broadcasts and alert notifications with integrated emergency conferencing, meet-me conferences, LAN and serial interfaces, digital inputs and outputs along with browser-based administration. With this feature set, DAKSeco is the ideal solution for a variety of applications across almost industry, including healthcare, education, manufacturing, corporate campuses and more. Sample applications include:



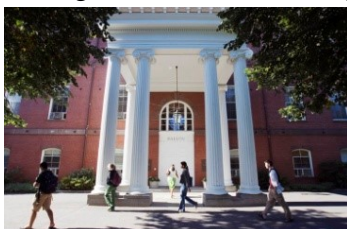
- ▶ **Silent Alarm** – Alert security of a potential problem or crisis with the press of a phone's speed dial key
- ▶ **Facilities Monitoring** – If a server room becomes too warm or an elevator fails, automatically notify a maintenance engineer
- ▶ **Evacuation Alerts** – Protect the wellbeing of staff and visitors with timely delivery of accurate instructions for a variety of circumstances – fire, weather, hazardous material spills and more
- ▶ **Nurse Call Mobility** – Improve caregiver effectiveness and productivity by extending nurse call response workflows to mobile nursing staff
- ▶ **Code Announcements** – Accelerate response to urgent patient needs for Code Blue, stroke team response, patient monitor alarms, Door-2-Balloon and other critical care scenarios

The DAKSeco software is available on two new cost-effective hardware platforms. Match your environment to the platform:

- ▶ DAKSeco100 is a small, tabletop unit with 4 to 8 channel connectivity to a PBX or softswitch. Perfect option for the small-scale, focused deployment on a tight budget.
- ▶ DAKSeco 200 is a 1U 19" rack mountable unit with capacity options of 4 to 30 channels. Start small with the option to expand the system.
Or, leverage the mid-sized capacity from the start for small to medium sized broadcasts and conferences.



With a variety of interfaces, DAKSeco will tightly integrate to your existing infrastructure. Leverage the investment you already have



in your telephony network and third-party systems and equipment. DAKSeco will improve the effectiveness of your communications and information flow without breaking your budget. Not to mention implementation is quick and hassle free. Take the next step to elevate your mission critical communications by deploying DAKSeco today!

Solutions With Impact™



FEATURES & ADMINISTRATION

BROADCASTS

In response to a variety of triggering events, DAKSeco alerts and informs individuals or user groups by automatically dialing their phones and transmitting selected prerecorded or ad-hoc announcements and alphanumeric display messages. Each broadcast definition includes options for the following:



- ◆ Internal and external phone numbers (broadcast targets) with text display to internal phones
- ◆ Multiple call attempts when busy or not answered
- ◆ Parallel or sequential dialing of targets
- ◆ Three (3) priority levels for calling
- ◆ High priority designation to assure channel availability
- ◆ Activation of enhanced features such as distinctive ringing, intrusion, forced release, automatic speaker activation, ignore call forwarding and more (dependent on switch type)
- ◆ Receipt acknowledgement via answer and positive/negative confirmation
- ◆ Automatic termination of calling once the designated number of acknowledgements received
- ◆ Activate contact output
- ◆ Optional escalated broadcasts if broadcast success criteria is or is not met
- ◆ Option to join initiator into conference call with all reached broadcast targets

CONFERENCES

In addition to activating a conference after a broadcast (dial-out conference), DAKSeco supports dial-in Meet-Me conferences. Each conference has a variety of configurable parameters including:

- ◆ Conference name to be displayed on internal phones
- ◆ Start and entry announcements
- ◆ Access codes for starting and entering conference
- ◆ Maximum conference duration
- ◆ Maximum number of dial-in conferees allowed
- ◆ Maximum wait time intervals including early arrivals, call in after conference start and inactive time at end of call

Feature/Function	DAKSeco 100	DAKSeco 200
Number of Broadcasts	100	100, option to 1,000
Number of Broadcast Targets	25	25
Number of Announcements	200	200, option to 1,000
Number of Conferences	10	10
Maximum Conference Size	8	30
Launch Broadcast via e-mail	No	Option

ACTIVATION OF BROADCASTS & CONFERENCES

Broadcasts and conferences may be triggered with or without human intervention via:

- ◆ Any internal or external phone with interactive user guidance or speed dial numbers
- ◆ Contact inputs
- ◆ Data interface to third party system (via ESPA-X, ESPA 4.4.4 or TAP)
- ◆ E-mail via Mail-to-Phone

LOGGING & REPORTS

All broadcast and conference activity is logged and reported. Details include start and end times, activation information, results and more. Following options are available:

- ◆ Syslog outputs are sent directly to an external Syslog server
- ◆ Online reports in the web interface may be viewed and exported
- ◆ Via e-mail dispatch (only DAKSeco 200)

FEATURES & ADMINISTRATION

Additionally, system status changes (such as interfaces that become inactive) are logged via the log printer, Syslog server and the VCON console. DAKSeco can also report system status messages through digital outputs and via SNMP traps.

BROWSER-BASED ADMINISTRATION

A user-friendly and intuitive web-based interface supports administration of broadcasts, conferences and associated parameters. Rights to review and edit the configuration is based on level of authorization of the logged in user. The interface is divided into multiple screens to support logical groupings of configuration information, including those highlighted below.

Display/Audio Information

Supports defining the audio and text announcements, including uploading WAV files and listening to the playback.

Contact Inputs

These screens support the administration of the 16 contact inputs of the DAKSeco 100 or the up to 64 contact inputs of the DAKSeco 200. For each input, define how it is activated, the broadcast to initiate and more. Activation modes include edge, short circuit and toggle.

Contact Outputs

For each output, assign a different function. The output may be controlled by a broadcast and is activated when a given broadcast is triggered (such as turn on a siren in addition to dialing targets). Or the output will be activated based on system state such as high priority process activated, at least one broadcast is active or serial interface is active.

Times

Define time periods and holidays for time-dependent activities as:

- ◆ Only call a given number during working hours
- ◆ Monitor digital I/Os only during the night, such as an open door

Broadcast Groups

Create, edit and delete broadcasts, including dialing details for each targeted number.

Conferences

Create, edit and delete conferences, including announcements, access codes, duration, size and wait times.

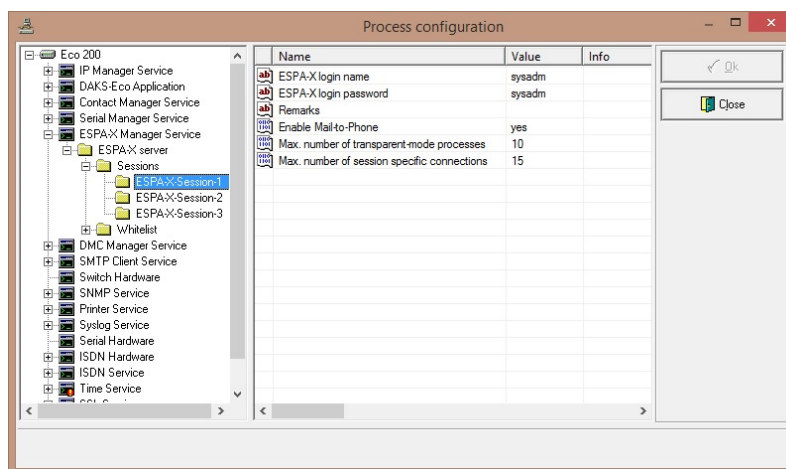
Access Points

To utilize positioning functions, base stations are configured including name, display/audio information and MAC addresses.

SERVICE CONSOLE

The service console (referred to as VCON) is a powerful and user-friendly configuration tool for service technicians and enables a variety of different service functions.

The initial startup of DAKSeco and the definition of the security policy are carried out via USB service interface. VCON is used to configure the IP address, network mask and the gateway plus the IP-address whitelist for access to DAKSeco via browser and VCON.



VCON offers a variety of additional functions via LAN:

- ◆ Editing of the service data
 - Administration of the PBX interface(s)
 - Configuration of the NTP servers, WSG server, Syslog server, LAN printer and SNMP Manager
 - Basic configuration of the digital I/Os
 - Basic configuration of the ESPA 4.4.4/TAP- or ESPA-X interface
- ◆ Save and restore the service data and the entire microSD- or CompactFlash card
- ◆ Activate and run various traces
- ◆ Software upgrades

INTERFACES & PERIPHERAL EQUIPMENT

DAKSeco leverages your organization's existing infrastructure and systems via a wide range of interfaces and equipment.

Telephony Connectivity

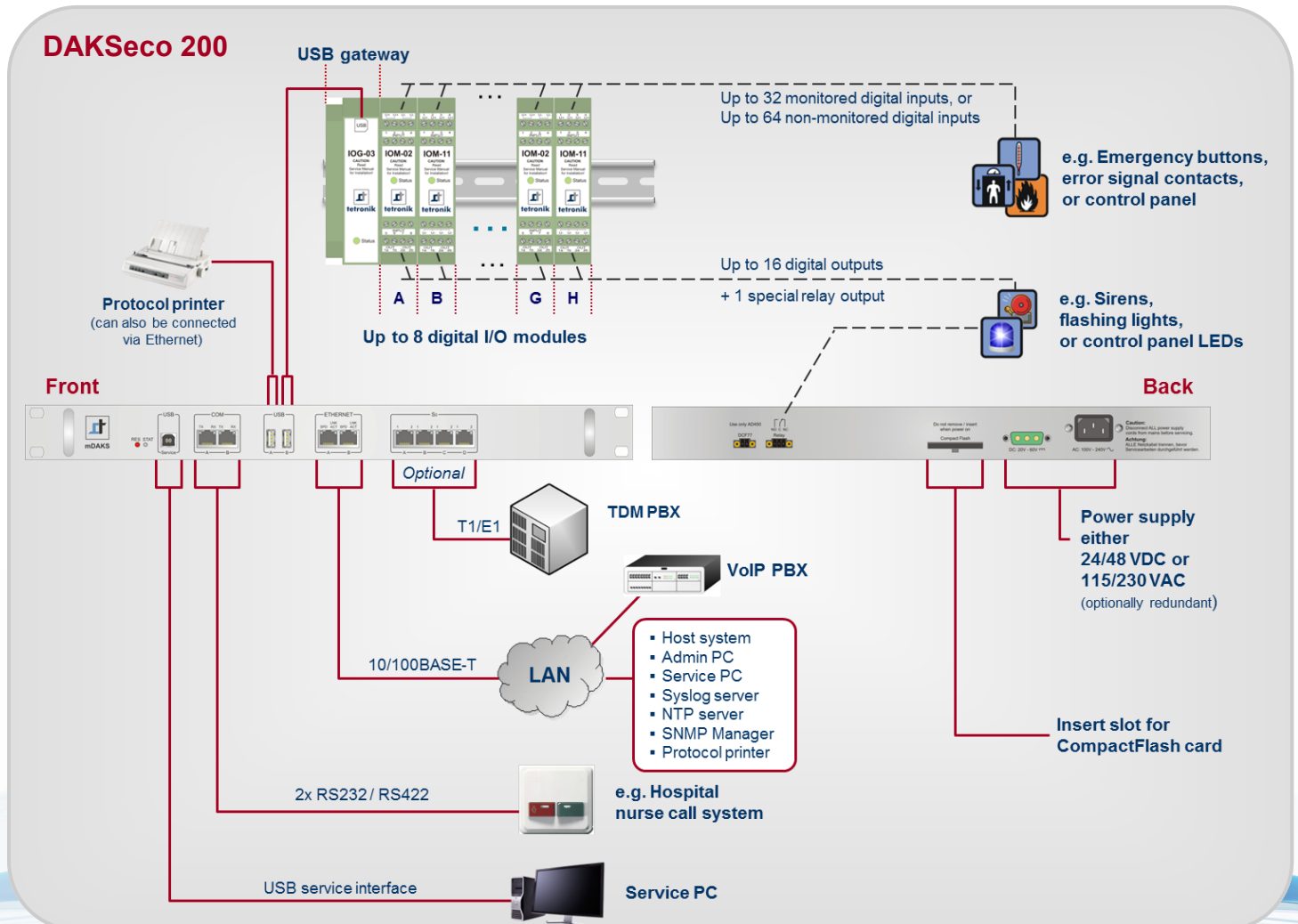
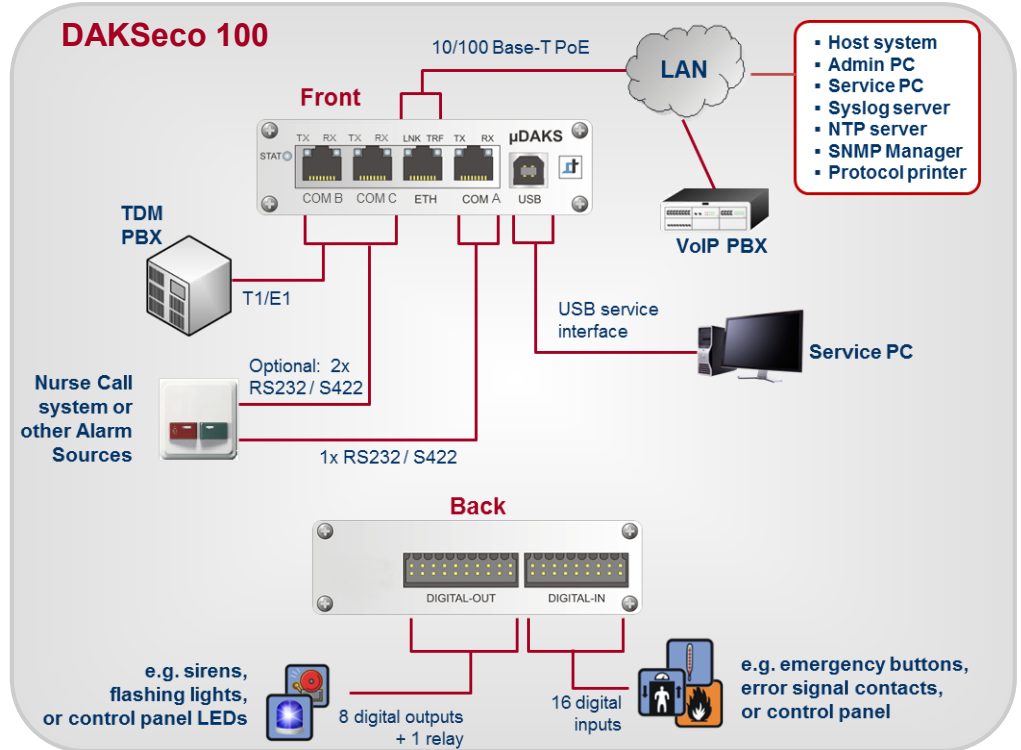
Connect to almost any switch platform using either TDM/IDSN (NI2, QSIG, DSS1, CorNet-NQ) or VoIP (SIP, SIP-Q) protocols.

Data Interfaces

Activate broadcasts and/or control via remotely automated interfaces, including TCP-based or serial asynchronous interfaces with various protocols including ESPA-X and TAP.

Electrical Contacts

Leverage input and output contacts to trigger broadcasts, signal peripheral equipment, send status and more.



Performance Feature/Function	DAKSeco 100	DAKSeco 200
Housing/Dimensions	Tabletop unit (6.5" x 4.13" x 1.18")	19" housing (1U) for rack installation
Number of parallel telephone channels	4 to 8	4 to 30
PBX connectivity technology	VoIP trunking, E1/T1 trunking	
Signaling protocols	QSIG, CorNet-NQ, NI2, DSS1, SIP, SIP-Q	
Speech codecs	G.711 A-law or μ -law	
Processor / operating system	1 processor core with μ Clinux™ operating system	2 processor cores: <ul style="list-style-type: none"> ◆ core 1 with μClinux™ operating system ◆ core 2 with Linux™ operating system
Mass storage device for program, data, licenses, reports and voice announcements	Pluggable 1 GB microSD card	Pluggable 2 GB CompactFlash card
LAN interface for VoIP, VCON service access, administration via browser and peripheral connectivity via ESPA-X, Syslog, NTP, SNMP and printer reports	1x 10/100 Base-T (1 IP address)	2x 10/100 Base-T (2 IP addresses) <ul style="list-style-type: none"> ◆ either one or two LAN connections ◆ VoIP separately if wanted
Digital Inputs & Outputs	Built into the device: <ul style="list-style-type: none"> ◆ 1 special relay output with make-and-break contact, e.g. for last error message ◆ 8 standard outputs ◆ 16 contact inputs with short-circuit and line-break detection 	Built into the server: <ul style="list-style-type: none"> ◆ 1 special relay output with make-and-break contact, e.g. for last error message Additionally up to 8 I/O modules connected via USB and corresponding USB gateway. Optionally also mixed: <ul style="list-style-type: none"> ◆ either modules with 8 inputs without short-circuit and line-break detection and 2 outputs ◆ or modules with 4 inputs with short-circuit and line-break detection and 2 outputs
Number of Serial RS232/RS422 data interfaces (electrically isolated) using ESPA 4.4.4/TAP	1 Up to 3 for VoIP system	2
Power source	Either via data switch with support of power-over-ethernet (PoE, type 2), or via the PoE-Injector looped-in the LAN connection, from 100...240VAC	Via internal power supply from 24/48 VDC or 115/230VAC; for redundancy purposes they can be used in parallel; in combination with external AC/DC converters also power supply from 2x 115/230VAC possible
Power consumption	< 6.5 watts (PoE Class 2)	for AC: approx. 25 watts for DC: approx. 20 watts
Logging printer connection	via LAN	via LAN or USB
Certifications (country codes in accordance with ISO 3166)	UL, FCC and CE with the following national approvals: <ul style="list-style-type: none"> ◆ All EU countries ◆ Following non-EU countries: AU, CA, CH, HK, IN, MY, NZ, RU, TR, US 	